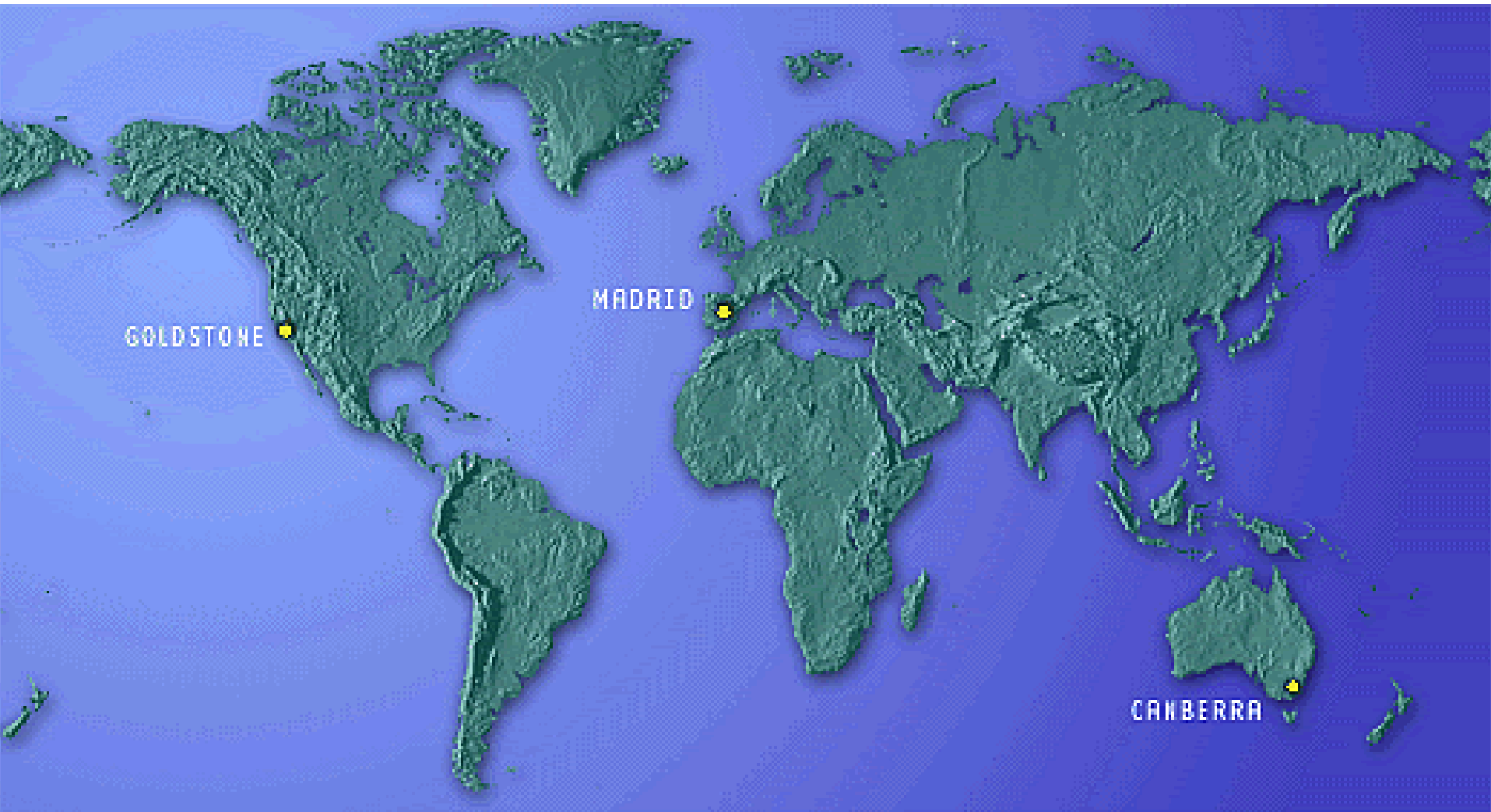


DSN Antenna Downtime Status and Forecast



<http://rapweb.jpl.nasa.gov/planning>

Antenna Downtime Status and Forecast

The following are downtimes for 2009 and 2010

- ❑ DSS-43 downtime for Life Extension and Depot Level Maintenance is scheduled for January 5 through April 12, 2009, weeks 2 – 15
 - ❑ DTRR approved the start of the downtime.
- ❑ DSS-26 downtime for X/KA HMT Maintenance is planned for 3 days, February 10, 11 & 12 of 2009.
 - ❑ Also scheduled during this time is a request for Ka-band Upgrade.
- ❑ DSS-14 3-day Grouting is planned for April of 2009 week 16.
 - ❑ Scheduled for DOYs 107 - 109.
 - ❑ Still a few conflicts to be resolved at conflict negotiation meeting.
- ❑ Complex corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance”
 - ❑ Will look for time in the middle of April.
- ❑ Complex preventative maintenance “Echo Tie-Line Electrical Maintenance” has been moved to start after the Apollo Tie-Line Electrical Maintenance.
 - ❑ Kepler launch is scheduled for DOY 065
 - ❑ Looking to schedule the first part of May.
- ❑ DSS-63 downtime for EI Bearing Replacement and Depot Level Maintenance (including grouting) is re-scheduled for May 4 through June 28, 2009, weeks 19 - 26.
 - ❑ All supports have been moved to other antenna during this downtime.
 - ❑ Additional time will be added to the 2011 downtime.
- ❑ DSS-54 downtime for Ka-Band Phase 2 is scheduled for June 29 through September 27, 2009, weeks 27 – 39.
 - ❑ This downtime must end prior to the end of the fiscal year.

Antenna Downtime Status and Forecast

The following are downtimes for 2009 and 2010 (cont'd)

- ❑ DSS-14 downtime for Life Extension and Depot Level Maintenance will start October 3, 2009 and end May 2, 2010 weeks 40-17
 - ❑ This downtime is proposed to move to 2010, weeks 10-40, March 8 through October 10, 2010.
- ❑ DSS-14 3-day Grouting is planned for July and October of 2009 weeks 30 & 44.
 - ❑ With the shift of the Life Extension and Depot Level Maintenance to 2010, 2 additional grouting periods will be needed in 2009
 - ❑ Scheduled for DOYs 202-204
 - ❑ Scheduled for DOYs 300-302
 - ❑ Still a few conflicts to be resolved at conflict negotiation meeting.
- ❑ DSS-24 downtime for painting is scheduled August 24 through October 18, 2010 weeks 35 – 42
 - ❑ This downtime is proposed to move to weeks 36-43, August 31 through September 25, 2009.
 - ❑ All supports have been moved to other antenna during this downtime.
 - ❑ There will be complete 24/7 downtime for the first 4 weeks and dayshift downtime (1400-0200) for the remaining weeks.
 - ❑ Depot Level Maintenance will be scheduled the first 4 weeks of this downtime.
- ❑ DSS-15 downtime for Pintle Bearing is scheduled for May 31 through July 25, 2010, weeks 22 - 28.
 - ❑ This downtime is proposed to move to weeks 45-53 November 2, 2009 through January 3, 2010
 - ❑ DSS 15 Elevation Gearbox Replacement will be scheduled NIB in weeks 45 & 46.
- ❑ DSS-34 downtime for Azimuth Track Replacement is scheduled February 1 through April 11, 2010, weeks 5 – 14.
 - ❑ This also includes M1-5 Mirror Alignment and M5 Support Ring Replacement.
- ❑ DSS-65 downtime for Life Extension Elevation is scheduled for August 2 through October 3, 2010, weeks 31 - 39.
 - ❑ All supports have been moved to other antenna during this downtime.

Antenna Downtime Status and Forecast

The following are downtimes for 2009 through 2010

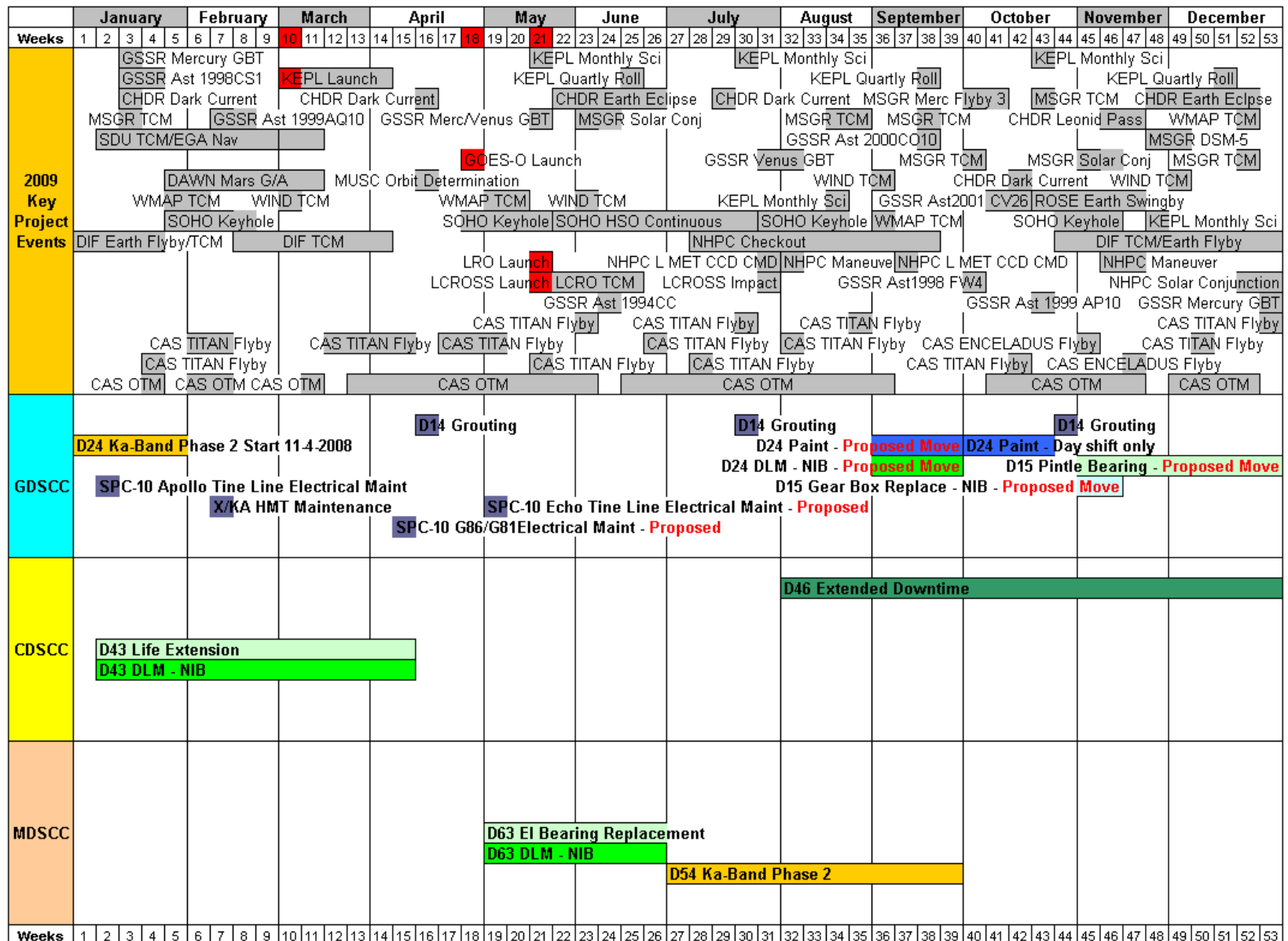
- ❑ DSS-25 downtime for Ka U/L is scheduled for August 2 – 29, 2010 weeks 31 – 34.
 - ❑ This downtime is proposed to move to weeks 45-49, November 8 through December 12, 2010.
 - ❑ Depot Level Maintenance will be scheduled during this downtime.
- ❑ As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010 and 2011, local spring, summer or fall after DSS-14 RTS.
 - ❑ DSS-43 is proposed for November 2010 thru February 2011 after EPOXI encounter.
 - ❑ DSS-63 is proposed for April 4, through September 4 of 2011 weeks 14 – 35, after Messenger MOI.

Antenna Downtime Status and Forecast

The following are downtimes for 2011 through 2013 (cont'd)

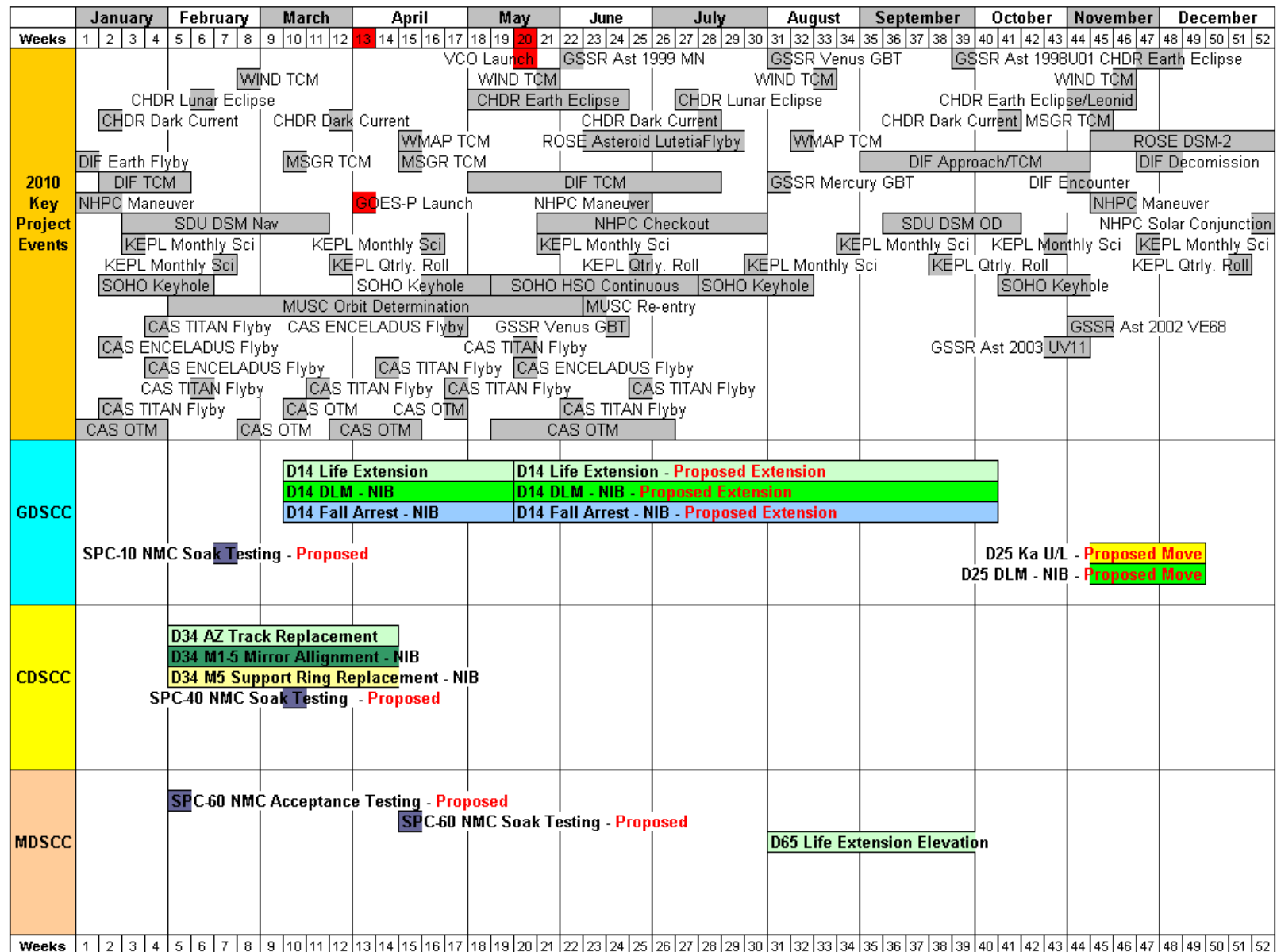
- ❑ BWG Antenna Controller Replacement is being requested starting in mid-April of 2011.
 - ❑ Duration of the first antenna at each complex should be 4 weeks
 - ❑ Duration of the second and subsequent antennas at each complex should be 3 weeks
 - ❑ All BWG antenna at a complex should be completed before moving to the next complex
 - ❑ Preferred first complex is GDSCC with DSS-24 being the first antenna and DSS-27 being the second antenna
 - ❑ Preferred first downtime at MDSCC should be DSS-54
 - ❑ Highly prefer that DSS-24 be completed prior to JUNO and MSL launches.
 - ❑ Tentative dates have been posted to the Gantt charts.
 - ❑ Question – can the ACR be scheduled before or during the AZ Track Replacement task?
- ❑ AZ Track Replacement is needed for DSS-24, 25, 26, 54 and 55 starting in 2012 in the spring and fall, 1 per complex.
 - ❑ Per conversation with Tim Sink, the following order of completion should be used – DSS-25, 26, 24 and 54. DSS-55 does not need the downtime right now. Will check later on when we need to do it.
 - ❑ Proposing DSS-26 for February 27 through May 6, 2012, weeks 9 – 18
 - ❑ Proposing DSS-25 for August 27 through November 4, 2012 weeks 35 – 44.
 - ❑ Proposing DSS-54 for February 11 through April 21, 2013 weeks 7-16
 - ❑ Proposing DSS-24 for September 2 through November 10, 2013 weeks 36-45

Antenna Downtime Status and Forecast 2009



Revised: March 2, 2009

Antenna Downtime Status and Forecast 2010



Revised: March 2, 2009

Antenna Downtime Proposed Moves 2011

| | January | | | | February | | | | March | | | | April | | | | May | | | | June | | | | July | | | | August | | | | September | | | | October | | | | November | | | | December | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-------------------|---|---|---|------------------|---|---|---|------------------|----|----|----|--------------------|----|----|----|-------------------|---|----|----|--------------------|----|----|----|-------------------|----|----|----|------------------|----|----|----|------------------|----|---|----|-----------------------|----|----|----|----------|----|----|----|----------|----|----|----|----|----|----|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | | | | | | | | | | | | | | | | |
| 2011 Key Project Events | | | | | SDU Tempel Enc | | | | | | | | | | | | | | | | | | | | | | | | GRAIL Launch/TCM | | | | | | | | GRAIL-A LOI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SDU Approach | | | | | | | | SDU Decommission | | | | | | | | | | | | | | | | | | | | | | | | | | | | GRAIL-B LOI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CHDR Dark Current | | | | | | | | | | | | CHDR Earth Eclipse | | | | CHDR Dark Current | | | | DAWN Vesta Arrival | | | | CHDR Dark Current | | | | | | | | CHDR Leonid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | KEPLMonthly Sci. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | KEPL Qtrly. Roll | | | | | | | | KEPL Qtrly. Roll | | | | | | | | KEPL Qtrly. Roll | | | | KEPLMonthly Sci. | | | | KEPL Qtrly. Roll | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SOHO Keyhole | | | | | | | | SOHO Keyhole | | | | | | | | SOHO Keyhole | | | | | | | | JUNO Launch & TCM | | | | JUNO TCM | | | | JUNO HV Checkout | | | | SOHO Keyhole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | MSGR MOI | | | | | | | | | | | | MSGR TCM | | | | | | | | MSGR TCM | | | | | | | | MSGR TCM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NHPC Maneuver | | | | | | | | NHPC Checkout | | | | NHPC Checkout | | | | | | | | NHPC Maneuver | | | | | | | | | | | | | | | | NHPC Maneuver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ROSE DSM-2 | | | | ROSE DSHM Entry | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | GSSR Asteroid 2000 YA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WIND TCM | | | | | | | | WIND TCM | | | | | | | | | | | | WIND TCM | | | | | | | | | | | | WIND TCM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GDSCC | | | | | | | | | | | | | | | | | | D24 Antenna Controller Replacement - Proposed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | D25 Antenna Controller Replacement - Proposed | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | D27 Antenna Controller Replacement - Proposed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CDSCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MDSCC | | | | | | | | | | | | | | | | | | D63 70m Power and HBA Upgrades & Life Extension | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | | | | | | | | | | | | | | | | |

Revised: March 2, 2009

Antenna Downtime Status and Forecast 2012

| | January | | | | February | | | | March | | | | April | | | | May | | | | June | | | | July | | | | August | | | | September | | | | October | | | | November | | | | December | | | | | | | | |
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| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | |
| 2012 Key Project Events | DAWN Vesta Orbit | | | | | | | | | | | | | | DAWN Vesta Depart | | | | | | | | | | DAWN Ceres Thrust PB and TV | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | WIND TCM | | | | GSSR Ast 2000 ET70 | | | | WIND TCM | | | | | | | | | | | | | | WIND TCM | | | | KEPL Qtrly. Roll | | | | WIND TCM | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | KEPL Monthly Sci. | | | | KEPL Qtrly. Roll | | | | KEPL Monthly Sci. | | | | KEPL Qtrly. Roll | | | | KEPL Monthly Sci. | | | | KEPL Monthly Sci. | | | | KEPL Monthly Sci. | | | | KEPL Monthly Sci. | | | | GSSR Ast 2007 PA8 | | | | | | | | | | | | | | | | |
| | | | | | KEPL Monthly Sci. | | | | | | | | KEPL Monthly Sci. | | | | | | | | | | | | | | | | | | KEPL Monthly Sci. | | | | | | | | | | | | | | | | | | | | | | |
| | GSSR Ast Eros | | | | | | | | JUNO DSMs DDOR | | | | | | | | | | | | | | JUNO DSMs DDOR | | | | JUNO DSMs/DDORs/TCMs | | | | JUNO Per Maint | | | | | | | | | | | | | | | | | | | | | | |
| | JUNO Cruise | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CHDR Dark Current | | | | | | | | CHDR Dark Current | | | | | | | | | | | | | | CHDR Dark Current | | | | | | | | CHDR Dark Current | | | | CHDR Leonid | | | | | | | | | | | | | | | | | | |
| | | | | | GSSR Mars | | | | CHDR Earth Eclipse | | | | | | | | | | | | | | GSSR Ast 2005 G021 | | | | CHDR Earth Eclipse | | | | CHDR Leonid | | | | | | | | | | | | | | | | | | | | | | |
| | MRO Relay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | GRAIL A LOI/OPR/TSF | | | | | | | | | | | | | | | | | | | | | | | | NHPC DDOR | | | | NHPC DDOR | | | | | | | | | | | | | | GSSR Ast 1998 ST49 | | | | | | | | | | |
| | GRAIL B LOI/OPR/TSF | | | | | | | | | | | | | | | | | | | | | | | | NHPC Maneuver | | | | GSSR Ast 2002 AM31 | | | | | | | | | | | | | | GSSR Ast 4179 Tout | | | | | | | | | | |
| | GSSR Ast 1991 VK | | | | GRAIL A/B Science | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NHPC Beacon | | | | | | | | | | | | | | NHPC Checkout | | | | | | | | | | NHPC Beacon | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NHPC Solar Conjunction | | | | | | | | | | | | | | | | | | MSL INST Checkout 2 | | | | | | | | | | | | | | MSL EDL/TCM | | | | NHPC Solar Conjunction | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | MSL FSW Update | | | | | | | | | | | | | | MSL Approach | | | | | | | | | | | | | | | | | | | | | | | | | |
| MSL TCM | | | | | | | | | | | | | | MSL FS Checkout 2 | | | | | | | | | | | | | | MSL TCM | | | | MSL Surface Ops | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | MRO MSL Relay | | | | | | | | | | | | | |
| GDSCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CDSCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| MDSCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | |

Antenna Downtime Status and Forecast 2013

| | January | | | | | February | | | | March | | | | April | | | | May | | | | June | | | | July | | | | August | | | | September | | | | October | | | | November | | | | December | | | | | | | | | | | |
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| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | | | | | |
| 2013 Key Project Events | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | DAWN Ceres Coasting | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | JWST Launch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CHDR Dark Current | | | | | | | | | | | | | CHDR Dark Current | | | | | | | | CHDR Dark Current | | | | | | | | | | | | CHDR Dark Current | | | | | | | | CHDR Leonid | | | | | | | | | | | | | | | |
| | | | | | | CHDR Earth Eclipse | | | | | | | | | | | | | | | | CHDR Earth Eclipse | | | | | | | | | | | | JUNO EFB | | | | JUNO Cruise | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | JUNO Cruise | | | | | | | | | | | | JUNO ME Flush | | | | JUNO TCM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | MRO MSL Relay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NHPC Solar Conjunction | | | | | | | | | | | | | | | | | NHPC Checkout | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | NHPC DDOR | | | | NHPC DDOR | | | | | | | | NHPC Beacon | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | NHPC Maneuver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| GDSCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CDSCC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Weeks | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | | | | | |

Revised: March 2, 2009

Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Subnet

| Complex | Station | Subnet | S-Band | | X-Band | | Ka-Band | | Ka Phase 2 |
|---|---------|--------|--------|-----|--------|-----|---------|----------|---------------|
| | | | Down | Up | Down | Up | Down | Up | |
| 40 | DSS-46 | 26M* | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A |
| 10 | DSS-27 | 34HSB | ✓ | ✓ | N/A | N/A | N/A | N/A | N/A |
| 10 | DSS-24 | 34B1 | ✓ | ✓ | ✓ | ✓ | N/A | N/A | TBD |
| 40 | DSS-34 | 34B1 | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | TBD |
| 60 | DSS-54 | 34B1 | ✓ | ✓ | ✓ | ✓ | ✓ | N/A | 09/27/09 |
| 10 | DSS-25 | 34B2 | N/A | N/A | ✓ | ✓ | ✓ | 08/29/10 | N/A |
| 10 | DSS-26 | 34B2 | N/A | N/A | ✓ | ✓ | ✓ | N/A | N/A |
| 60 | DSS-55 | 34B2 | N/A | N/A | ✓ | ✓ | ✓ | N/A | N/A |
| 10 | DSS-15 | 34HEF | ✓ | N/A | ✓ | ✓ | N/A | N/A | N/A |
| 40 | DSS-45 | 34HEF | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| 60 | DSS-65 | 34HEF | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| 10 | DSS-14 | 70M | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| 40 | DSS-43 | 70M | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| 60 | DSS-63 | 70M | ✓ | ✓ | ✓ | ✓ | N/A | N/A | N/A |
| N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changer As of: 03/02/09 ✓ ✓ ✓ = Capability Recently Exists ✓ = Capability Exists * = To Be Decommissioned | | | | | | | | | |